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11 August 1972

E72-10016
CR-127495

Type I Progress Report for the Period 14 June to 14 August 1972 for ERTS-A Data User Investigation of the Use of ERTS Imagery in Reservoir Management and Operation - Proposal Number MMC 89

Mr. Saul Cooper - DE 002

Dr. Paul Bock - UN 017 - Co-Principal Investigators

(Note: Dr. Paul Bock's name should replace the incorrect "Dr. Paul Roach" on page 11 of the "Schedule 'A' - Statement of Work")

The first two months of our participation in the ERTS-A program have involved a general preparation for the installation of DCP's and the receiving, processing and analyzing of ERTS-A imagery and DCS data. We have subcontracted a portion of our study to the University of Connecticut, Storrs, Connecticut, which, under the direction of Dr. Paul Bock, Professor of Hydrology, will aid in the analysis of ERTS-A imagery. This contract will run from 1 July 1972 through 3 September 1973. As soon as our Supply Division issues the formal contract, we will send a copy to you.

During the first two months, we had four meetings with Professor Bock and his associates from the University of Connecticut. We also met with Dr. Duwayne Anderson, Harlan McKim and Ray Tuinstra of our Cold Regions Research and Engineering Laboratory (CRREL), Hanover, New Hampshire, which will also be cooperating with us in this ERTS-A experiment. Two additional DCP's have been requested in behalf of their participation which will be focussing on the study of the possibility of interfacing soil temperature, soil moisture and other environmental sensors with ERTS DCP's.

To date, we have received no imagery. Four DCP's were received on 31 May 1972. Two of these have been returned to G.E. for reconditioning. The other two have been deployed as the first in our 26-site data collection network. (We are using one of the spares as a test site at our headquarters.) A map depicting the planned extent of this network, a listing of the locations and a series of sketches indicating the parameters to be measured are inclosed for your information. To date, we have received no valid data from the first two platforms. The problem is suspected to be one of interfacing our sensors with the DCP's, and we are actively troubleshooting the difficulties with the aid of technicians from G.E.

(E72-10016) ERTS-A DATA USER INVESTIGATION
OF THE USE OF ERTS IMAGERY IN RESERVOIR
MANAGEMENT AND OPERATION Progress S.
Cooper, et al (Corps of Engineers, Waltham,
Mass.) 11 Aug. 1972 5 p

N72-29268

CSCL 08H G3/13

Unclas
00016

We are presently awaiting more DCP's, as well as news regarding the pending installation of a real time link for data acquisition from NASA, both badly needed before a proper pursuit of our data collection experiment can take place.

During the next two months, we will hope to receive imagery and more DCS equipment, so that we can begin our imagery analysis and also deploy enough DCP's to analyze the incoming information.

3 Incl
As stated



SAUL COOPER
Principal Investigator


ERTS-A DATA REPORTING STATIONS

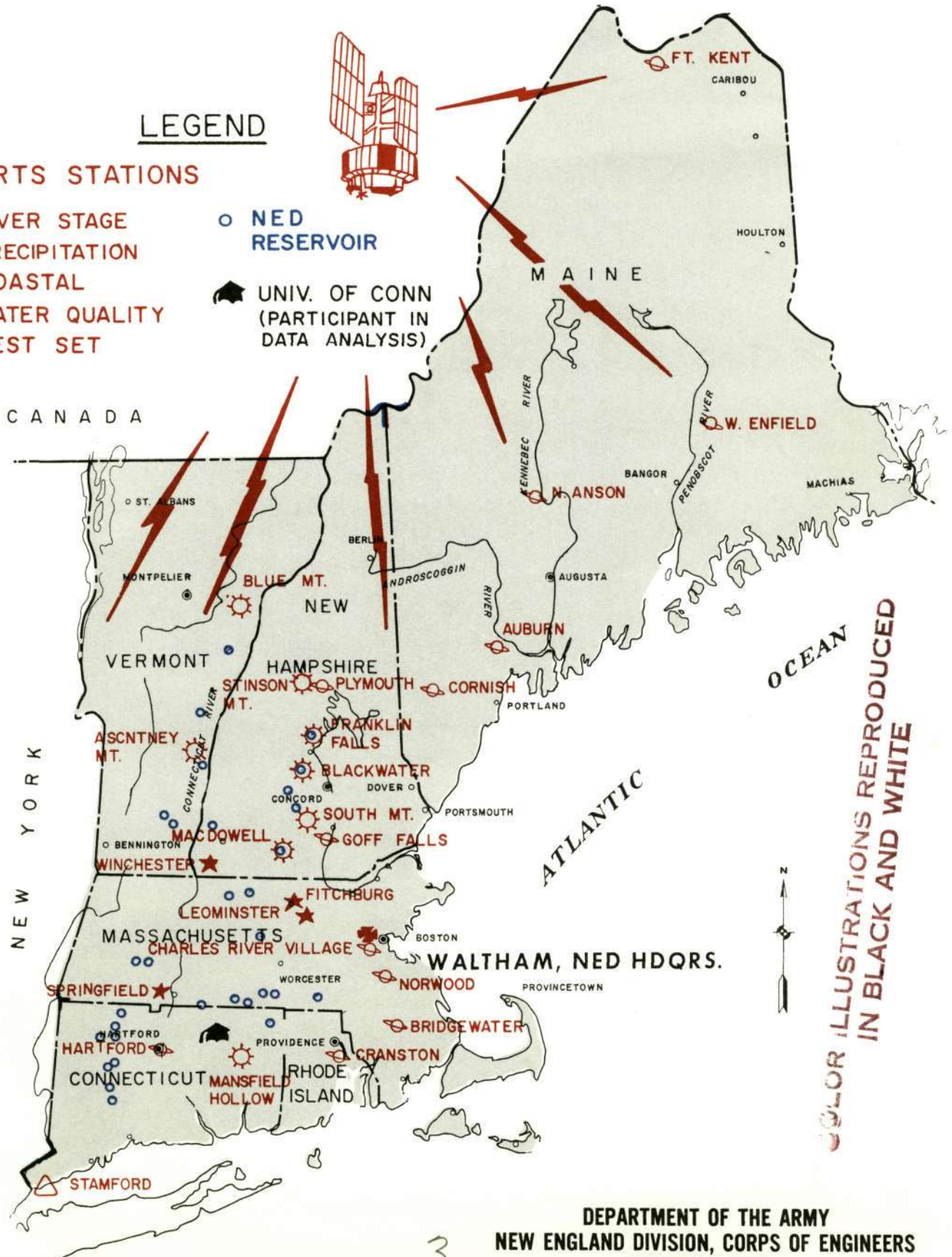
LEGEND

ERTS STATIONS

-  RIVER STAGE
-  PRECIPITATION
-  COASTAL
-  WATER QUALITY
-  TEST SET

 NED
RESERVOIR

 UNIV. OF CONN
(PARTICIPANT IN
DATA ANALYSIS)



DEPARTMENT OF THE ARMY
NEW ENGLAND DIVISION, CORPS OF ENGINEERS
WALTHAM, MASS.

ERTS-A - DCP INFORMATION SHEET
ARMY CORPS OF ENGINEERS, NEW ENGLAND DIVISION AUG 10, 1972

THIS SHEET SUPERSEDES THAT OF JULY 10, 1972

ID NO.	DCP NO.	ANT. NO.	STATION NAME	LAT	LONG	LA- STALLED
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RIVER STAGE

1			ST. JOHN RIVER AT FORT KENT, MAINE	47 15	68 35	
2			PENOBSCOT RIVER AT WEST ENFIELD, MAINE	45 14	68 39	
3			CARABASSETT RIVER AT NORTH ANSON, MAINE	44 52	69 57	
4			ANDROSCOGGIN RIVER AT AUBURN, MAINE	44 04	70 12	
5			SACO RIVER AT CORNISH, MAINE	43 48	70 47	
6			PEMIGEWASSET RIVER AT PLYMOUTH, N.H.	43 45	71 41	
7			MERRIMACK RIVER AT GOFFS FALLS, N.H.	42 57	71 28	
8	6220 0054		CHARLES R. AT CHARLES R. VILLAGE, MASS.	42 15	71 15	071772
9			NEPONSET RIVER AT NORWOOD, MASS.	42 10	71 12	
10			PANTUXET RIVER AT CRANSTON, R.I.	41 45	71 27	
11			CONNECTICUT RIVER AT HARTFORD, CONN.	41 46	72 40	
12			TAUNTON RIVER NEAR BRIDGEWATER, MASS.	41 56	70 57	

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PRECIPITATION

20			BLUE MOUNTAIN, VERMONT	44 14	72 08	
21			STINSON MOUNTAIN, N.H.	43 50	71 47	
22			SOUTH MOUNTAIN, N.H.	42 59	71 35	
23			ASCUTNEY MOUNTAIN, VERMONT	43 27	72 27	
24			FRANKLIN FALLS DAM, N.H.	43 28	71 40	
25			BLACKWATER DAM, N.H.	43 19	71 44	
26			MACDONELL DAM, N.H.	42 54	71 59	
27			MANSFIELD HOLLOW DAM, CONNECTICUT	41 46	72 11	

COASTAL *

30	0638		STAMFORD BARRIER, STAMFORD, CONNECTICUT	41 02	73 32	
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WATER QUALITY **

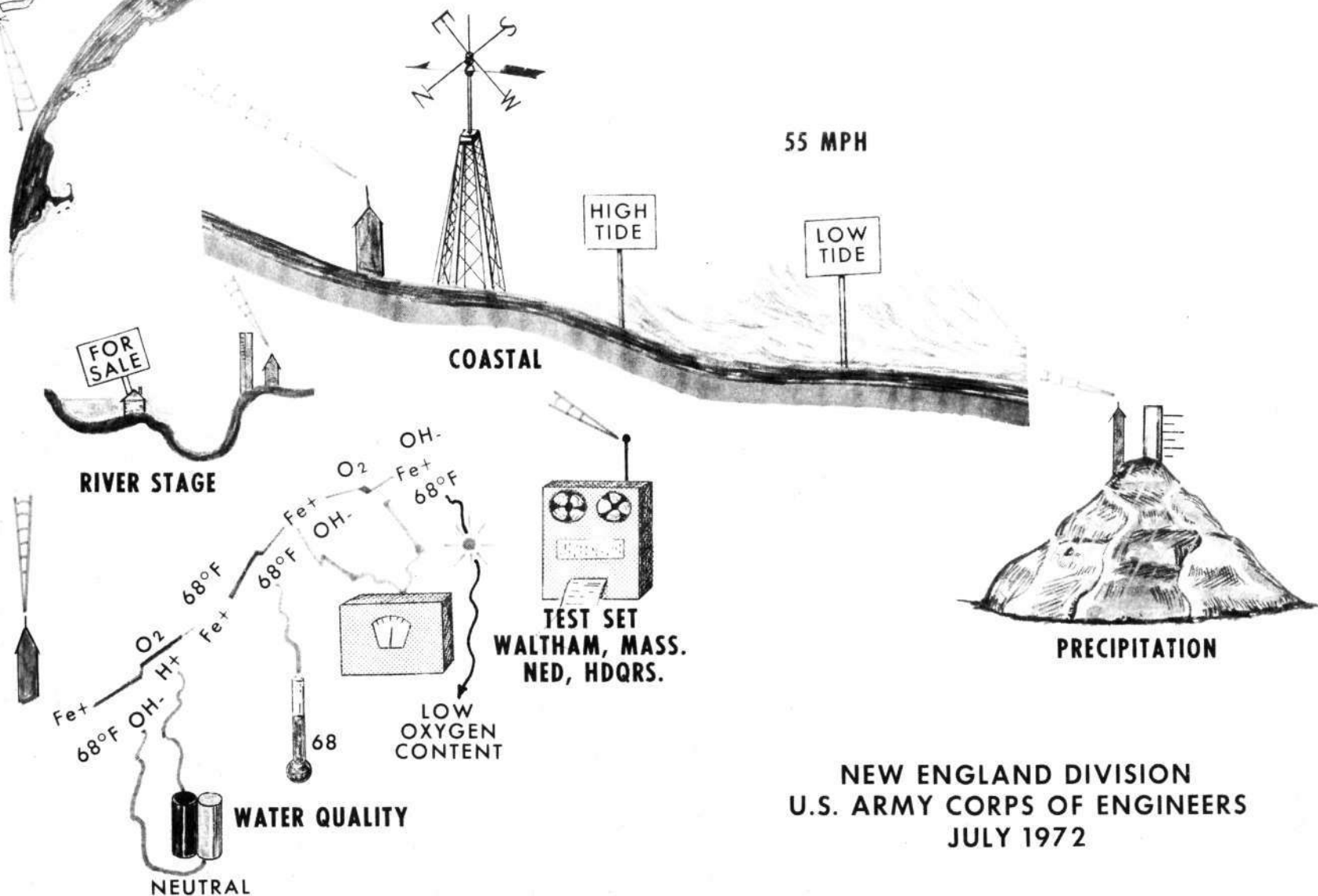
40			ASHUELOT RIVER AT WINCHESTER, N.H.	42 47	72 23	
41			NORTH NASHUA RIVER AT FITCHBURG, MASS.	42 34	71 47	
42			NORTH NASHUA RIVER AT LEONINSTER, MASS.	42 30	71 43	
43			CONNECTICUT RIVER AT SPRINGFIELD, MASS.	42 06	72 36	

TEST SET

50	6207 0035		NED HEADQUARTERS, WALTHAM, MASS.	42 24	71 13	071772
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* INCLUDES WIND DIRECTION AND VELOCITY AND TIDE

** INCLUDES TEMPERATURE, CONDUCTIVITY, PH, AND DISSOLVED OXYGEN



NEW ENGLAND DIVISION
U.S. ARMY CORPS OF ENGINEERS
JULY 1972